

Chapter 10

10-1



10-2

$$A = Sd^m$$

$$\dim(A_{\text{music}}) = \dim(S) \dim(d^m) = \text{ksi} \cdot \text{in}^m$$

$$\dim(A_{\text{SI}}) = \dim(S_1) \dim(d_1^m) = \text{MPa} \cdot \text{mm}^m$$

$$A_{\text{SI}} = \frac{\text{MPa}}{\text{ksi}} \cdot \frac{\text{mm}^m}{\text{in}^m} A_{\text{music}} = 6.894\,757(25.4)^m A_{\text{music}} \approx 6.895(25.4)^m A_{\text{music}} \quad \text{Ans.}$$

For music wire, from Table 10-4:

$$A_{\text{music}} = 201, \quad m = 0.145; \quad \text{what is } A_{\text{SI}}?$$

$$A_{\text{SI}} = 6.89(25.4)^{0.145}(201) = 2214 \text{ MPa} \cdot \text{mm}^m \quad \text{Ans.}$$

10-3

Given: Music wire, $d = 0.105$ in, OD = 1.225 in, plain ground ends, $N_t = 12$ coils.

Table 10-1:

$$N_a = N_t - 1 = 12 - 1 = 11$$

$$L_s = dN_t = 0.105(12) = 1.26 \text{ in}$$

Table 10-4:

$$A = 201, \quad m = 0.145$$

(a) Eq. (10-14):

$$S_{\text{wt}} = \frac{201}{(0.105)^{0.145}} = 278.7 \text{ ksi}$$

Table 10-6:

$$S_{\text{sy}} = 0.45(278.7) = 125.4 \text{ ksi}$$

$$D = 1.225 - 0.105 = 1.120 \text{ in}$$

$$C = \frac{D}{d} = \frac{1.120}{0.105} = 10.67$$

Eq. (10-6):

$$K_B = \frac{4(10.67) + 2}{4(10.67) - 3} = 1.126$$

Eq. (10-3):

$$F|_{S_{\text{sy}}} = \frac{\pi d^3 S_{\text{sy}}}{8K_B D} = \frac{\pi(0.105)^3(125.4)(10^3)}{8(1.126)(1.120)} = 45.2 \text{ lbf}$$

Eq. (10-9):

$$k = \frac{d^4 G}{8D^3 N_a} = \frac{(0.105)^4(11.75)(10^6)}{8(1.120)^3(11)} = 11.55 \text{ lbf/in}$$

$$L_o = \frac{F|_{S_{\text{sy}}}}{k} + L_s = \frac{45.2}{11.55} + 1.26 = 5.17 \text{ in} \quad \text{Ans.}$$

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H Kauffman



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Professional Engineer, 1985 *Guidelines for Design Solutions for Process Equipment Failures* CCPS (Center for Chemical Process Safety), 2010-09-17 While there is no perfect solution or absolute zero risk engineering design can significantly reduce risk potential in the CPI In *Guidelines for Design Solutions to Process Equipment Failures* industry experts offer their broad experience in identifying numerous solutions to the more common process equipment failures including inherent safer passive active and procedural solutions in decreasing order of robustness and reliability The book challenges the engineer to identify opportunities for inherent and passive safety features early and use a risk based approach to process safety systems specification The book is organized into three basic sections 1 a technique for making risk based design decisions 2 potential failure scenarios for 10 major processing equipment categories and 3 two worked examples showing how the techniques can be applied The equipment categories covered are vessels reactors mass transfer equipment fluid transfer equipment solids fluid separators solids handling and processing equipment and piping and piping components Special Details Hardcover book plus 3 5 diskette for use in any word processing program with design solutions for use in PHAs **Pipeline Rules of Thumb Handbook** E.W. McAllister, 2015-08-03 Now in its sixth edition *Pipeline Rules of Thumb Handbook* has been and continues to be the standard resource for any professional in the pipeline industry A practical and convenient reference it provides quick solutions to the everyday pipeline problems that the pipeline engineer contractor or designer faces *Pipeline Rules of Thumb Handbook* assembles hundreds of shortcuts for pipeline construction design and engineering Workable how to methods handy formulas correlations and curves all come together in this one convenient volume Save valuable time and effort using the thousands of illustrations photographs tables calculations and formulas available in an easy to use format Updated and revised with new material on project scoping plastic pipe data HDPE pipe data fiberglass pipe NEC tables trenching and much more A book you will use day to day guiding every step of pipeline design and maintenance **Pipeline Rules of Thumb Handbook** M.J. Kaiser, E.W. McAllister, 2022-09-02 *Pipeline Rules of Thumb Handbook A Manual of Quick Accurate Solutions to Everyday Pipeline Engineering Problems Ninth Edition* the latest release in the series serves as the go to source for all pipeline engineering answers Updated with new data graphs and chapters devoted to economics and the environment this new edition delivers on new topics including emissions decommissioning cost curves and more while still maintaining the quick answer standard display of content and data that engineers have utilized throughout their careers Glossaries are added per chapter for better learning tactics along with additional storage tank and LNG fundamentals This book continues to be the high quality classic reference to help pipeline engineers solve their day to day problems Contains new chapters that highlight costs safety and environmental topics including discussions on emissions Helps readers learn terminology with updated glossaries in every chapter Includes renovated graphs and data tables throughout *Subject Guide to Books in Print*, 1996 *Engineering Education*, 1980

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